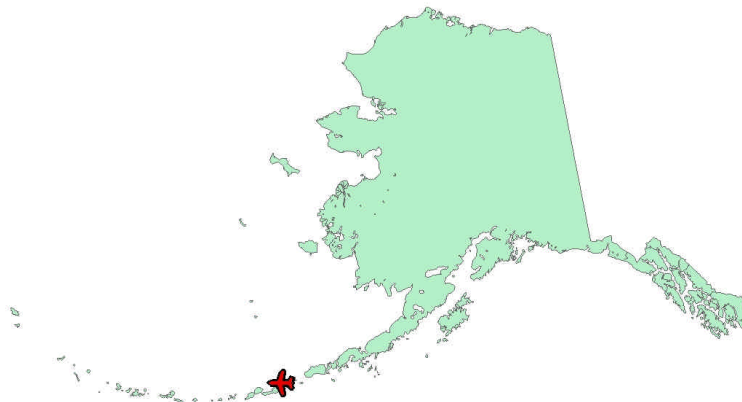




UNALASKA AIRPORT



2004 Alaska Airport Pavement Condition Report

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Maps and report compiled by
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 Central Region Materials, Alaska DOT&PF

UNALASKA AIRPORT - 2004

Contents:

- A Pavement Strength Form showing project history, latest Pavement Condition Index (PCI) data, pavement strength ratings (if available) and other useful information
- A Pavement Condition Survey – PCI Sample Unit Layout Plan
- PCI maps showing as-measured and predicted pavement conditions
- Age map showing pavement age as of 2004
- A Branch PCI Condition Report
- A Section PCI Condition Report

Airport Information:

- Location: The Unalaska/Dutch Harbor Airport is located on Unalaska Island. This island is one of the Aleutian Islands in southwestern Alaska. The airport serves the communities of Unalaska and Dutch Harbor and a hub airport for adjacent island communities. It is a commercial airport for passenger and cargo traffic.
- District: Southwest, Central Region
- Airport Manager: Troy Larue
- District Maintenance Manager: Steve Berninger
- Pavement Surface: Asphalt Concrete and Portland Cement Concrete
- Last Pavement Construction: 2003
- Pavement layout:

Unalaska/Dutch Harbor Airport has a paved runway (12-30), two Aprons and two Taxiways. The runway, the Terminal Apron, Taxiway A and part of Taxiway B were paved in 1998, about one month prior to the pavement condition survey. The runway measures 3,900' long and 102' wide, with paved shoulders. The Hangar Apron and the north portion of Taxiway B have Portland cement concrete (PCC) surfacing of World War II vintage. Underlying courses of the runways are 1940s vintage PCC, except the east end of the runway (Section 1) that has granular fill.
- Design Aircraft: B-737
- 2003 Enplanements: 28,843 – down 4% from 2002
- Airport Class: Primary
- Last pavement condition survey: May 28, 2003
- Next planned pavement condition survey: 2006
- 2004 reported pavement maintenance and/or changed conditions: Routine maintenance done, no complaints.

Recommendations:

- Seal cracks that are greater than ¼" wide and patch with cold mix as required to maintain serviceability.
- Reconstruct:
 - Hangar Apron
 - Taxiway B, Section 200-02

Date: 5 /11/2005	Branch Condition Report <i>Pavement Database: NetworkID: Unalaska</i>	1 of 2
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Date: 5 /11/2005	Branch Condition Report <i>Pavement Database: NetworkID: Unalaska</i>	1 of 2
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Date: 5 /11/2005

Branch Condition Report

2 of 2

Pavement Database:

Use Category	Number of Sections	Total Area (SqFt)	Arithmetic Average PCI	Average PCI STD.	Weighted Average PCI
APRON	3	379,932.01	62.00	43.57	76.41
RUNWAY	2	397,800.01	62.50	6.50	57.10
TAXIWAY	3	140,398.00	49.33	35.35	64.46
All	8	918,130.02	57.38	35.07	66.22

Date: 5 /11/2005

Section Condition Report

1 of 2

Pavement Database: NetworkID: Unalaska

Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection Date	Age At Inspection	PCI
100 (Taxiway A)	100-01	08/01/1998	APC	TAXIWAY	P	0	113,750.00	05/28/2003	5	67.00
200 (Taxiway B)	200-01	08/01/1998	APC	TAXIWAY	S	0	17,648.00	05/28/2003	5	81.00
200 (Taxiway B)	200-02	09/01/1943	PCC	TAXIWAY	T	0	9,000.00	05/29/2003	60	0.00
4100 (Terminal Apron)	4100-01	08/01/1998	APC	APRON	P	0	192,916.01	05/28/2003	5	85.00
4100 (Terminal Apron)	4100-02	08/01/2003	AC	APRON	P	0	125,700.00	08/01/2003	0	100.00
4200 (Hangar Apron)	4200-01	09/01/1943	PCC	APRON	T	0	61,316.00	05/28/2003	60	1.00
6100 (Runway 12-30)	6100-01	08/01/1998	AC	RUNWAY	P	0	33,660.00	05/28/2003	5	69.00
6100 (Runway 12-30)	6100-02	08/01/1998	APC	RUNWAY	P	0	364,140.01	05/28/2003	5	56.00

Date: 5 /11/2005

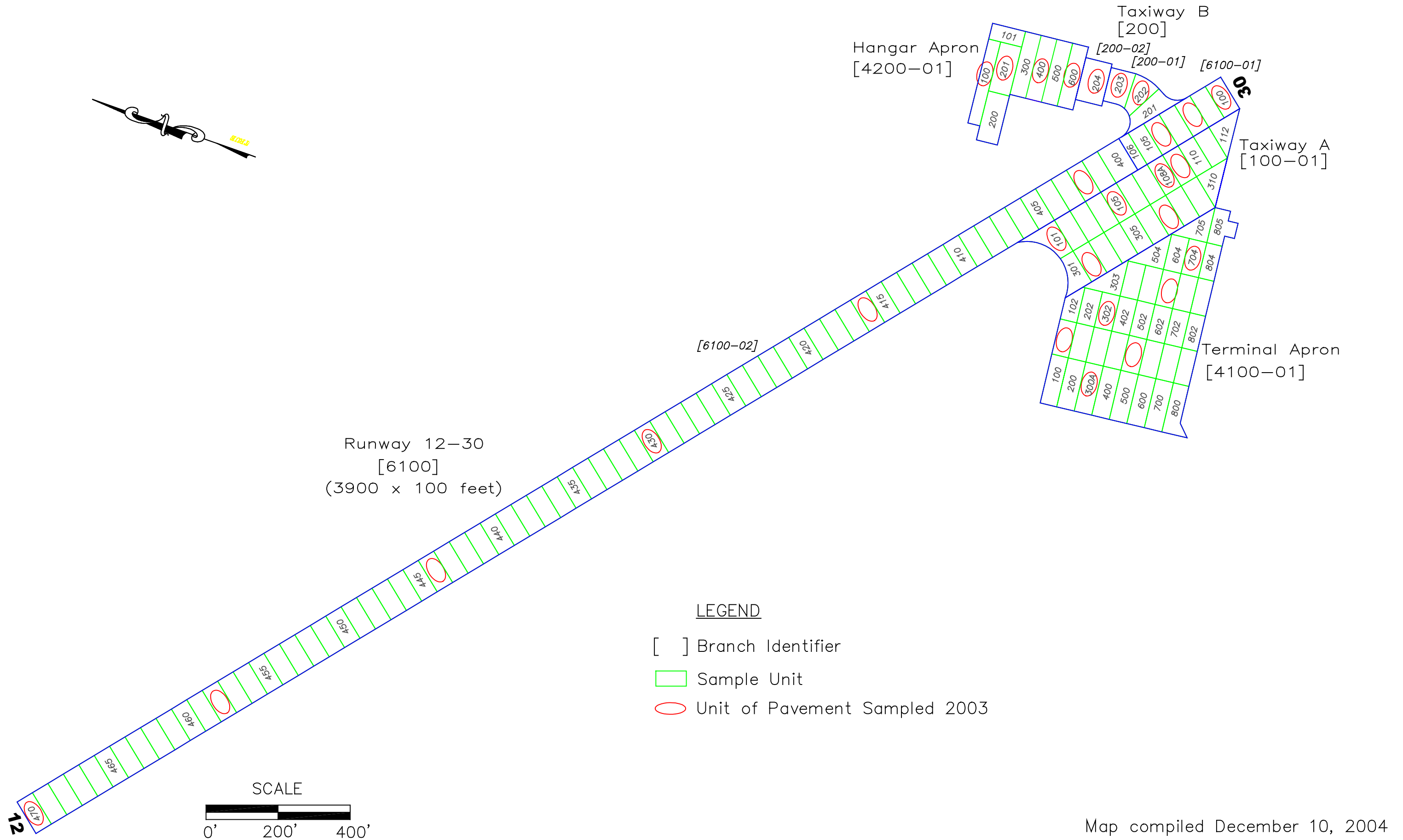
Section Condition Report

2 of 2

Pavement Database:

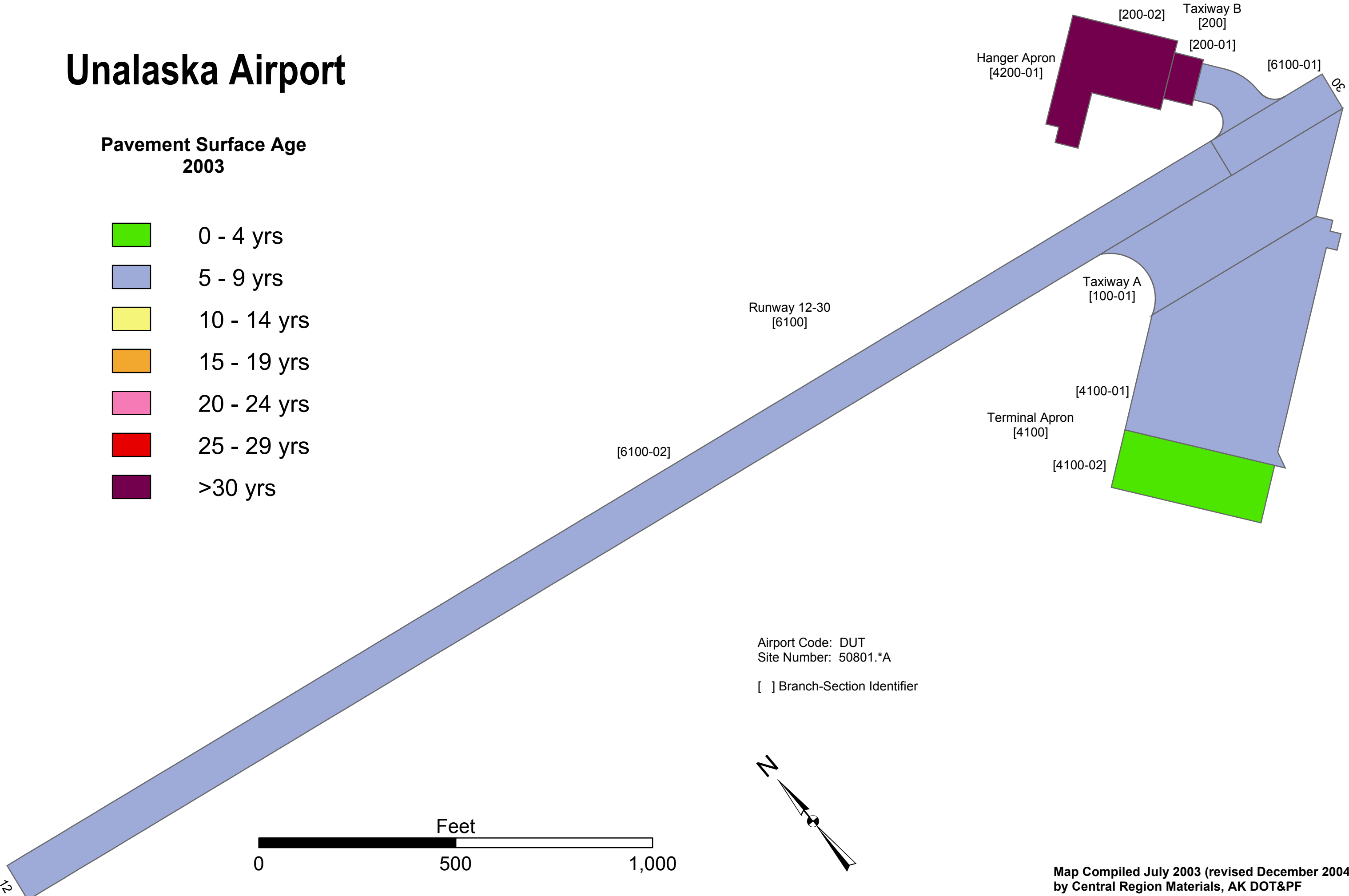
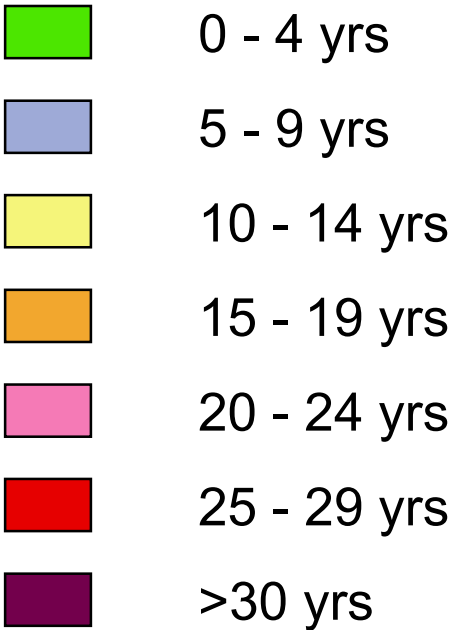
Age Category	Average Age At Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	PCI Standard Deviation	Weighted Average PCI
0-02	0.00	125,700.00	1	100.00	0.00	100.00
03-05	5.00	722,114.02	5	71.60	10.38	66.70
over 40	60.00	70,316.00	2	0.50	0.50	0.87
All	18.13	918,130.02	8	57.38	35.07	66.22

[illegible]

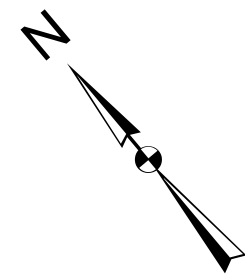
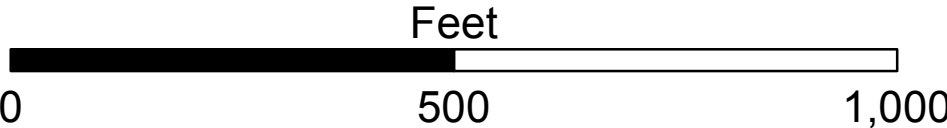


Unalaska Airport

Pavement Surface Age 2003











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Site Number: 50801.*A
[] Branch-Section Identifier



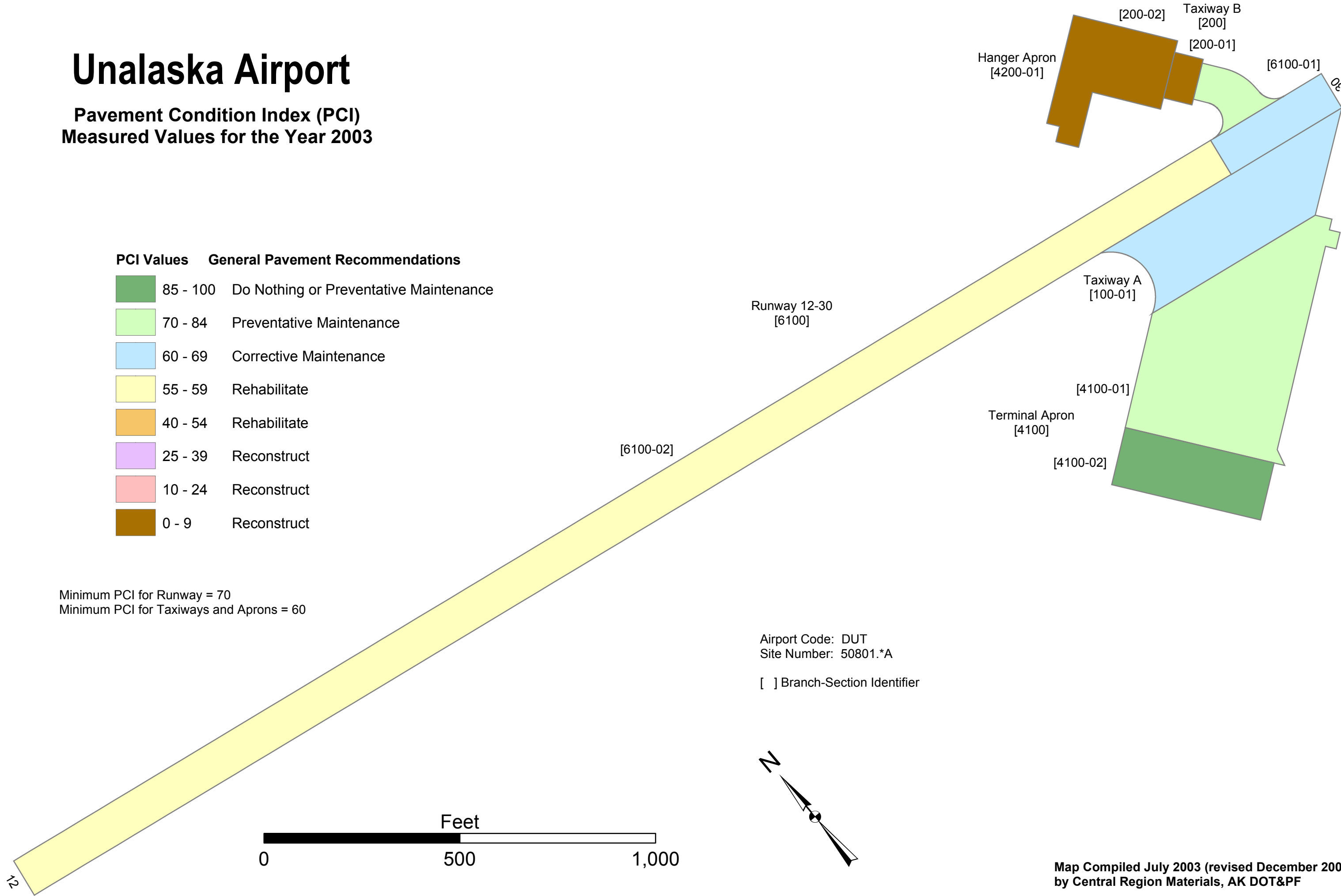
Unalaska Airport

Pavement Condition Index (PCI)
Measured Values for the Year 2003

PCI Values		General Pavement Recommendations
	85 - 100	Do Nothing or Preventative Maintenance
	70 - 84	Preventative Maintenance
	60 - 69	Corrective Maintenance
	55 - 59	Rehabilitate
	40 - 54	Rehabilitate
	25 - 39	Reconstruct
	10 - 24	Reconstruct
	0 - 9	Reconstruct

Minimum PCI for Runway = 70
Minimum PCI for Taxiways and Aprons = 60

Airport Code: DUT
Site Number: 50801.*A
[] Branch-Section Identifier



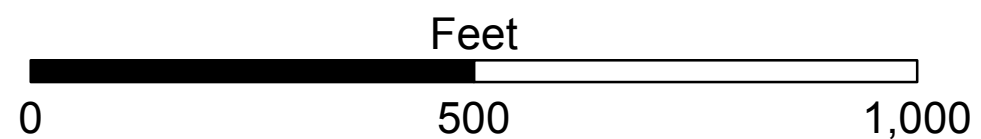
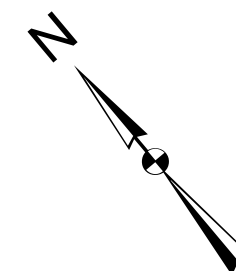
Pavement Condition Index (PCI) Predicted Values for the Year 2004

PCI Values	General Pavement Recommendations
85 - 100	Do Nothing or Preventative Maintenance
70 - 84	Preventative Maintenance
60 - 69	Corrective Maintenance
55 - 59	Rehabilitate
40 - 54	Rehabilitate
25 - 39	Reconstruct
10 - 24	Reconstruct
0 - 9	Reconstruct

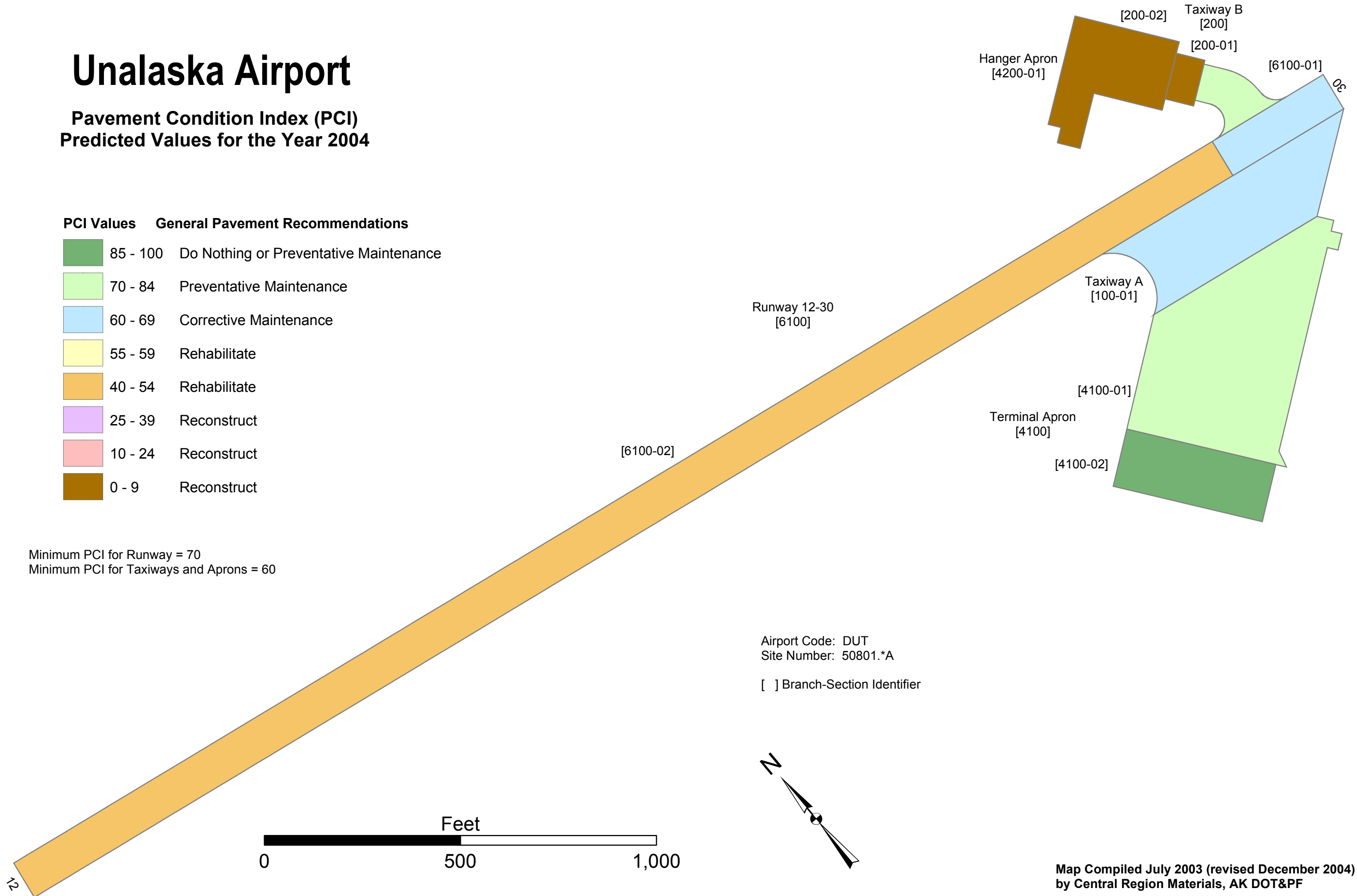
Minimum PCI for Runway = 70
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Airport Code: DUT
Site Number: 50801.*A

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








**Map Compiled July 2003 (revised December 2004)
by Central Region Materials, AK DOT&PF**

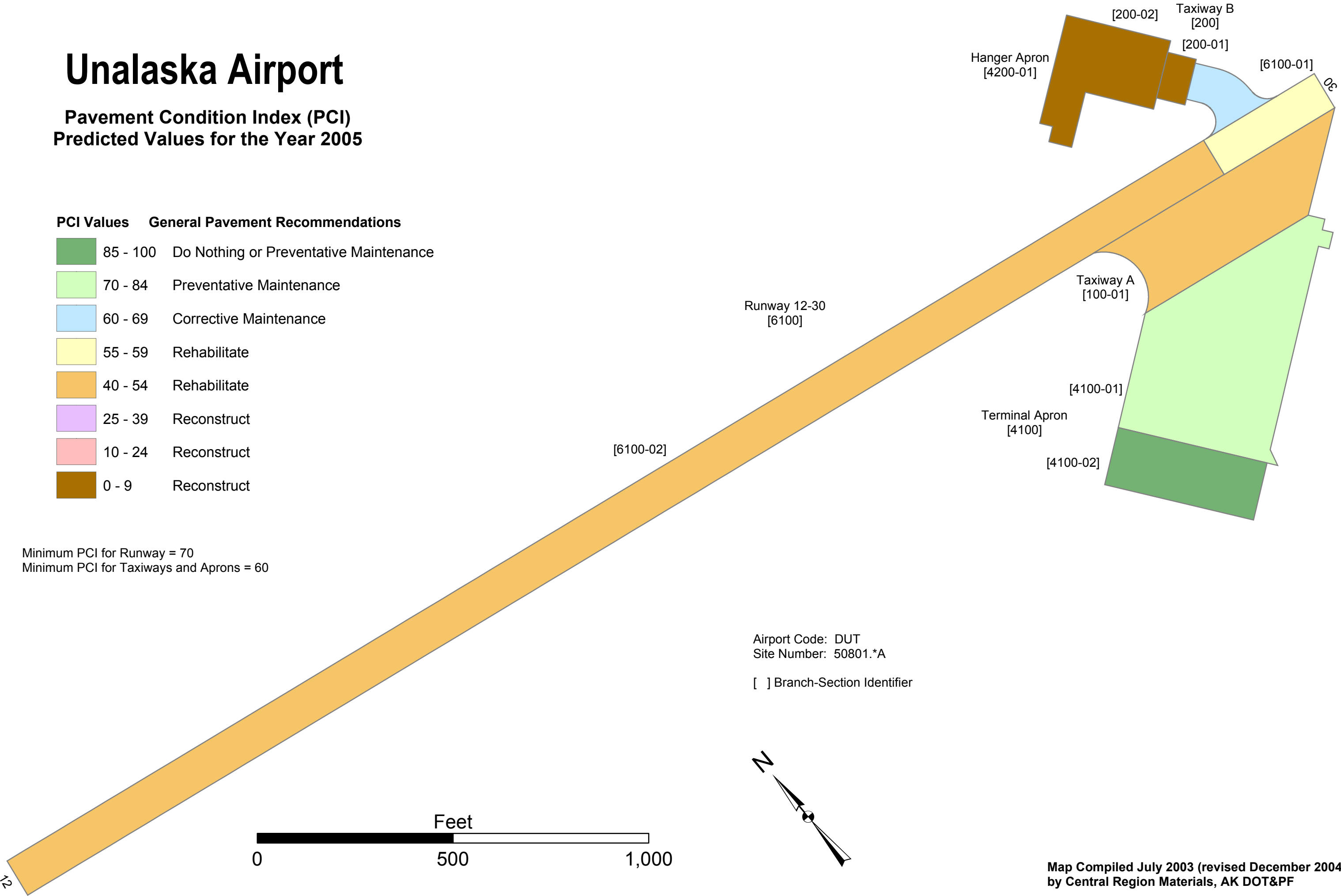


Unalaska Airport

Pavement Condition Index (PCI) Predicted Values for the Year 2005

PCI Values		General Pavement Recommendations
	85 - 100	Do Nothing or Preventative Maintenance
	70 - 84	Preventative Maintenance
	60 - 69	Corrective Maintenance
	55 - 59	Rehabilitate
	40 - 54	Rehabilitate
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	0 - 9	Reconstruct









Minimum PCI for Runway = 70
Minimum PCI for Taxiways and Aprons = 60



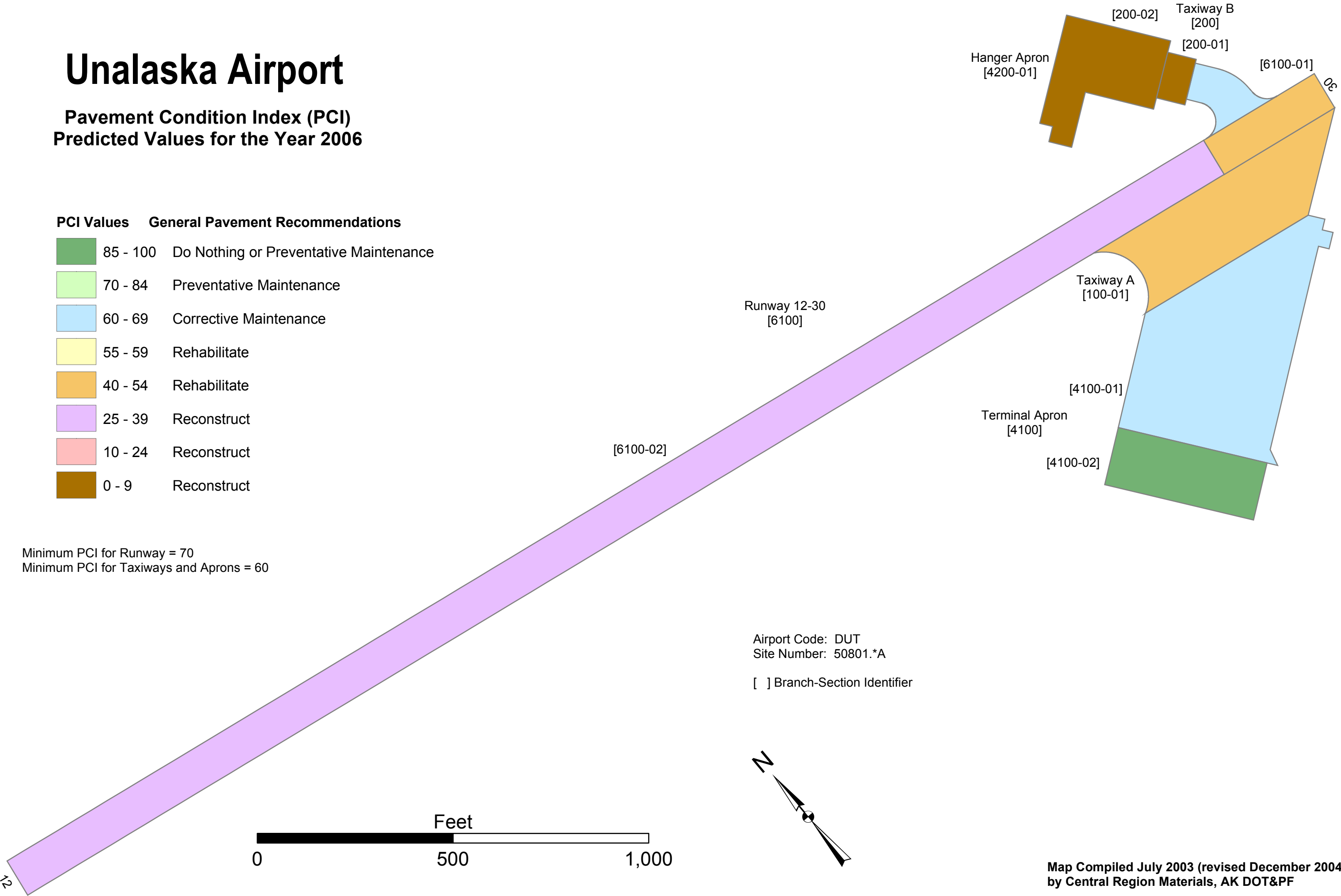
Airport Code: DUT
Site Number: 50801.*A
[] Branch-Section Identifier

Unalaska Airport

Pavement Condition Index (PCI) Predicted Values for the Year 2006

PCI Values		General Pavement Recommendations
	85 - 100	Do Nothing or Preventative Maintenance
	70 - 84	Preventative Maintenance
	60 - 69	Corrective Maintenance
	55 - 59	Rehabilitate
	40 - 54	Rehabilitate
	25 - 39	Reconstruct
	10 - 24	Reconstruct
	0 - 9	Reconstruct









Minimum PCI for Runway = 70
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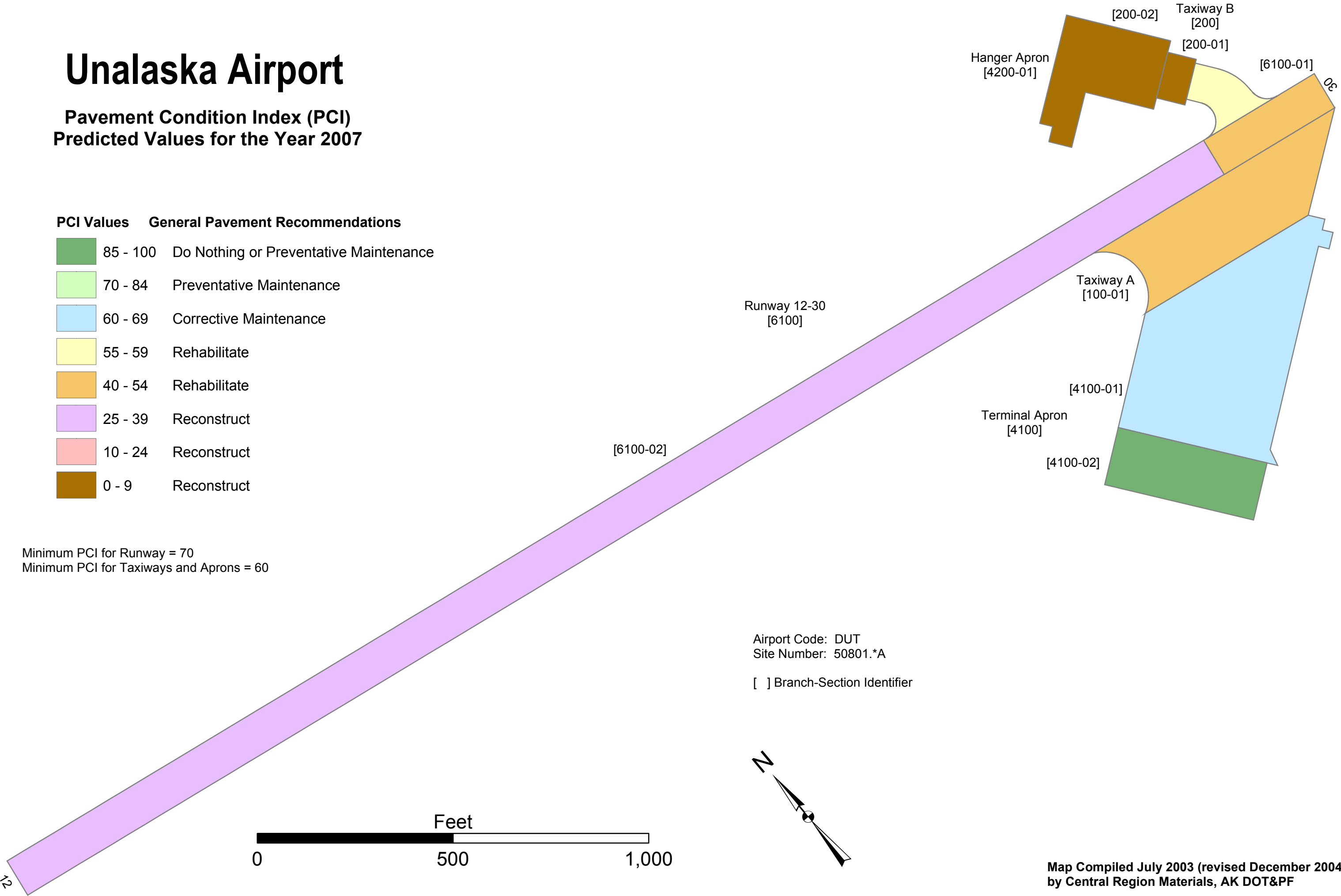
Airport Code: DUT
Site Number: 50801.*A
[] Branch-Section Identifier

Unalaska Airport

Pavement Condition Index (PCI) Predicted Values for the Year 2007

PCI Values		General Pavement Recommendations
	85 - 100	Do Nothing or Preventative Maintenance
	70 - 84	Preventative Maintenance
	60 - 69	Corrective Maintenance
	55 - 59	Rehabilitate
	40 - 54	Rehabilitate
	25 - 39	Reconstruct
	10 - 24	Reconstruct
	0 - 9	Reconstruct









Minimum PCI for Runway = 70
Minimum PCI for Taxiways and Aprons = 60



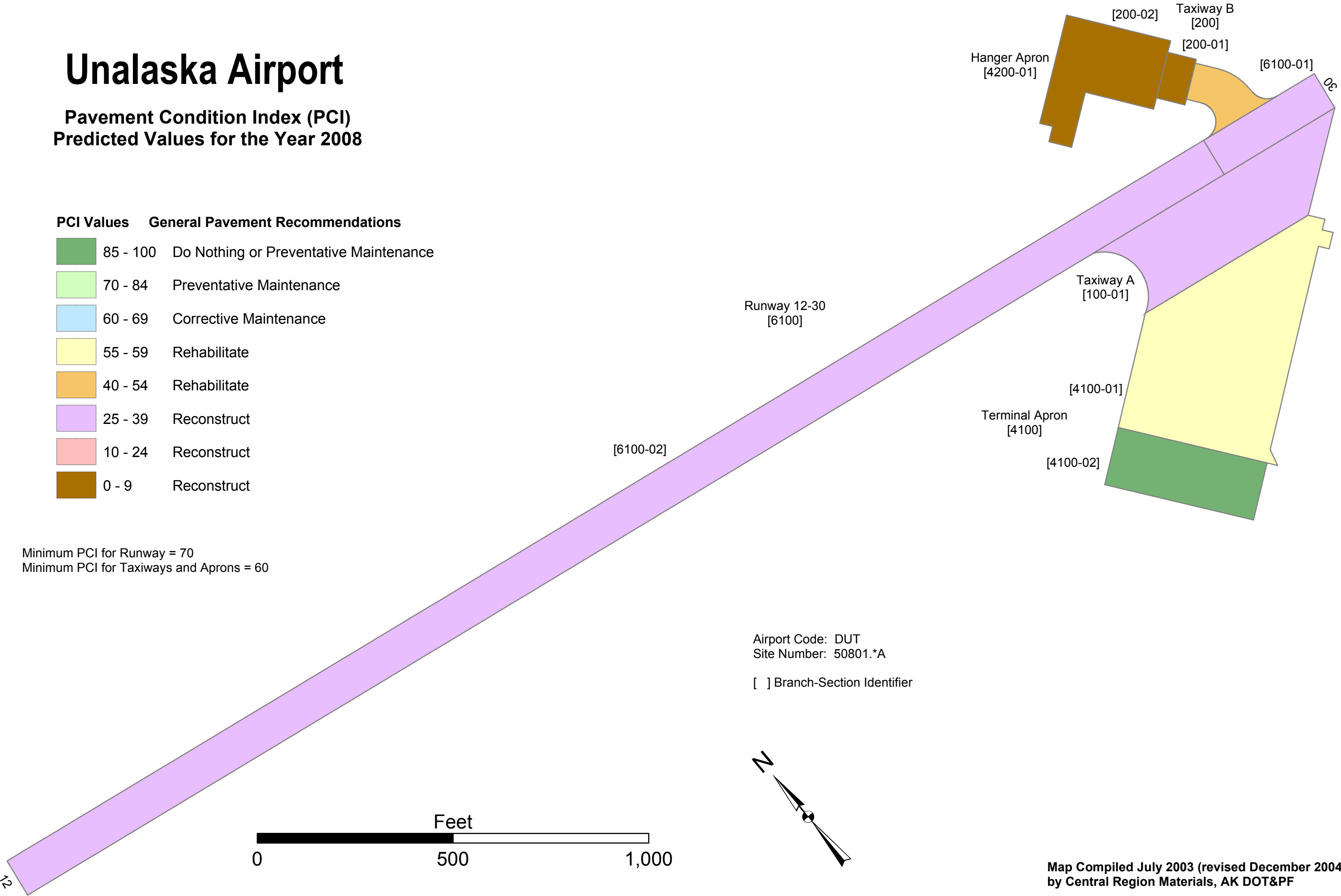
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Site Number: 50801.*A
[] Branch-Section Identifier

Unalaska Airport

Pavement Condition Index (PCI) Predicted Values for the Year 2008

PCI Values		General Pavement Recommendations
	85 - 100	Do Nothing or Preventative Maintenance
	70 - 84	Preventative Maintenance
	60 - 69	Corrective Maintenance
	55 - 59	Rehabilitate
	40 - 54	Rehabilitate
	25 - 39	Reconstruct
	10 - 24	Reconstruct
	0 - 9	Reconstruct

Minimum PCI for Runway = 70
Minimum PCI for Taxiways and Aprons = 60



Airport Code: DUT
Site Number: 50801.*A
[] Branch-Section Identifier